

(19) World Intellectual Property
Organization
International Bureau



553160

(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094605 A2

- (51) International Patent Classification⁷: C12N
- (21) International Application Number:
PCT/US2004/012066
- (22) International Filing Date: 19 April 2004 (19.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/463,764 17 April 2003 (17.04.2003) US
- (71) Applicant (for all designated States except US): MOUNT SINAI SCHOOL OF MEDICINE OF NEW YORK UNIVERSITY [US/US]; One Gustav L. Levy Place, New York, New York 10029-6574 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HORVATH, Curt [US/US]; 254 E. 68th Street, #4C, New York, New York 10021 (US). RODRIGUEZ, Jason [US/US]; New York, NY (US). ULANE, Christine [US/US]; 50 East 98th Street, Apt. 14i1, New York, New York 10029 (US). PARISIEN, Jean-Patrick [HT/US]; 85-25 120th Street, Apt. 2A, Kew Gardens, New York 11415 (US).
- (74) Agents: LORENZ, Todd, A. et al.; DORSEY & WHITNEY LLP, 4 Embarcadero Center, Suite 3400, San Francisco, California 94111 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITIONS FOR INHIBITING STAT SIGNALING PATHWAYS

(57) Abstract: The invention relates to compositions and methods for modulating cell signaling mediated by signal transducers and activators of transcription (STAT). The compositions target cellular STAT3 and STAT1 protein, particularly STAT3, for degradation via the ubiquitination pathway. Thus, the STAT inhibiting agents are useful for inhibiting STAT mediated signal transduction events, such as responses to IL6 and v-Src, any may be applied to treating diseases associated with activated STAT proteins, particularly STAT3 activity, such as cell proliferative disorders, inflammatory reactions, and autoimmune conditions.



WO 2004/094605 A2